

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458379

Luminaire Tested: **GALN-SA9D-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68646 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

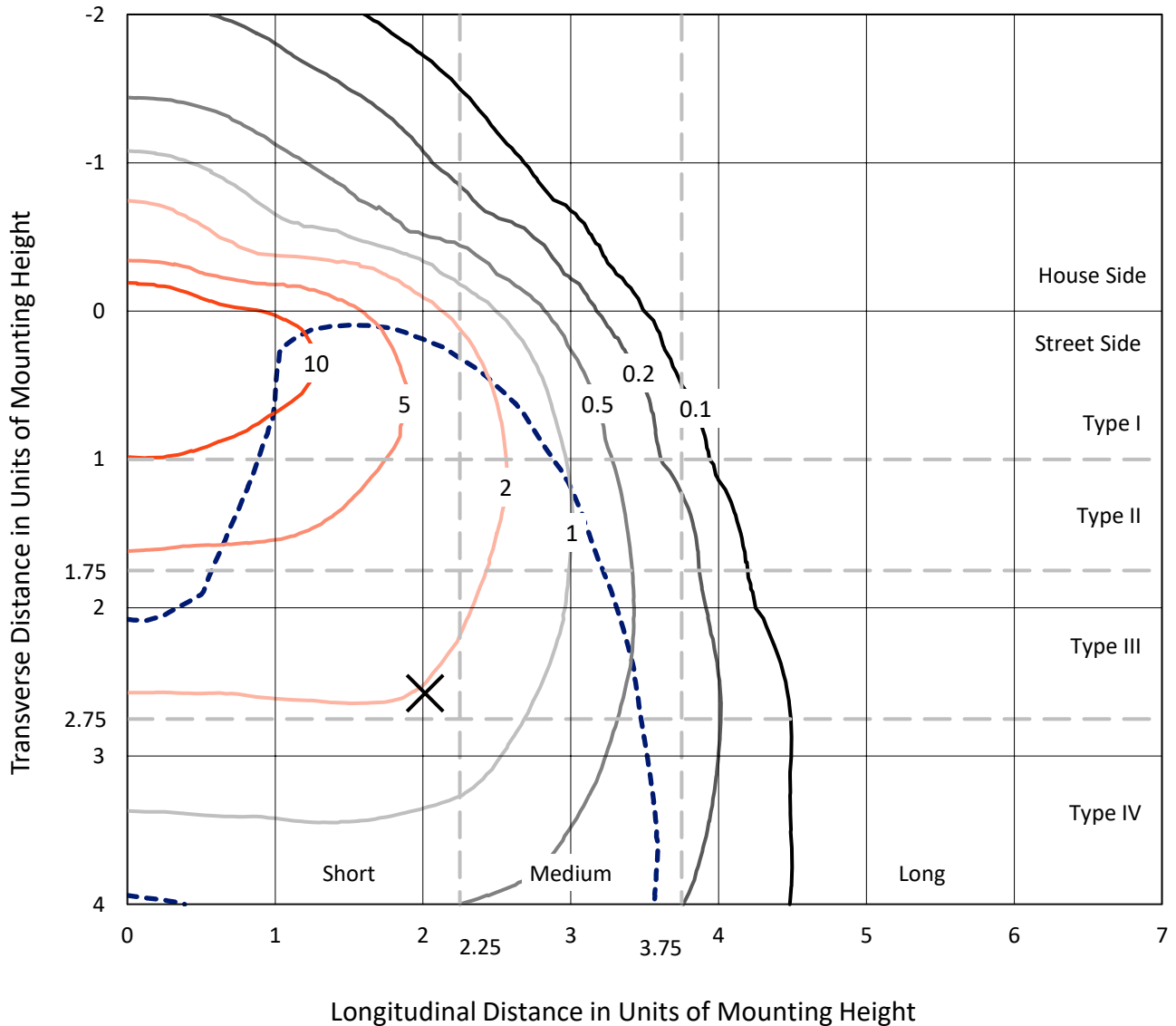
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

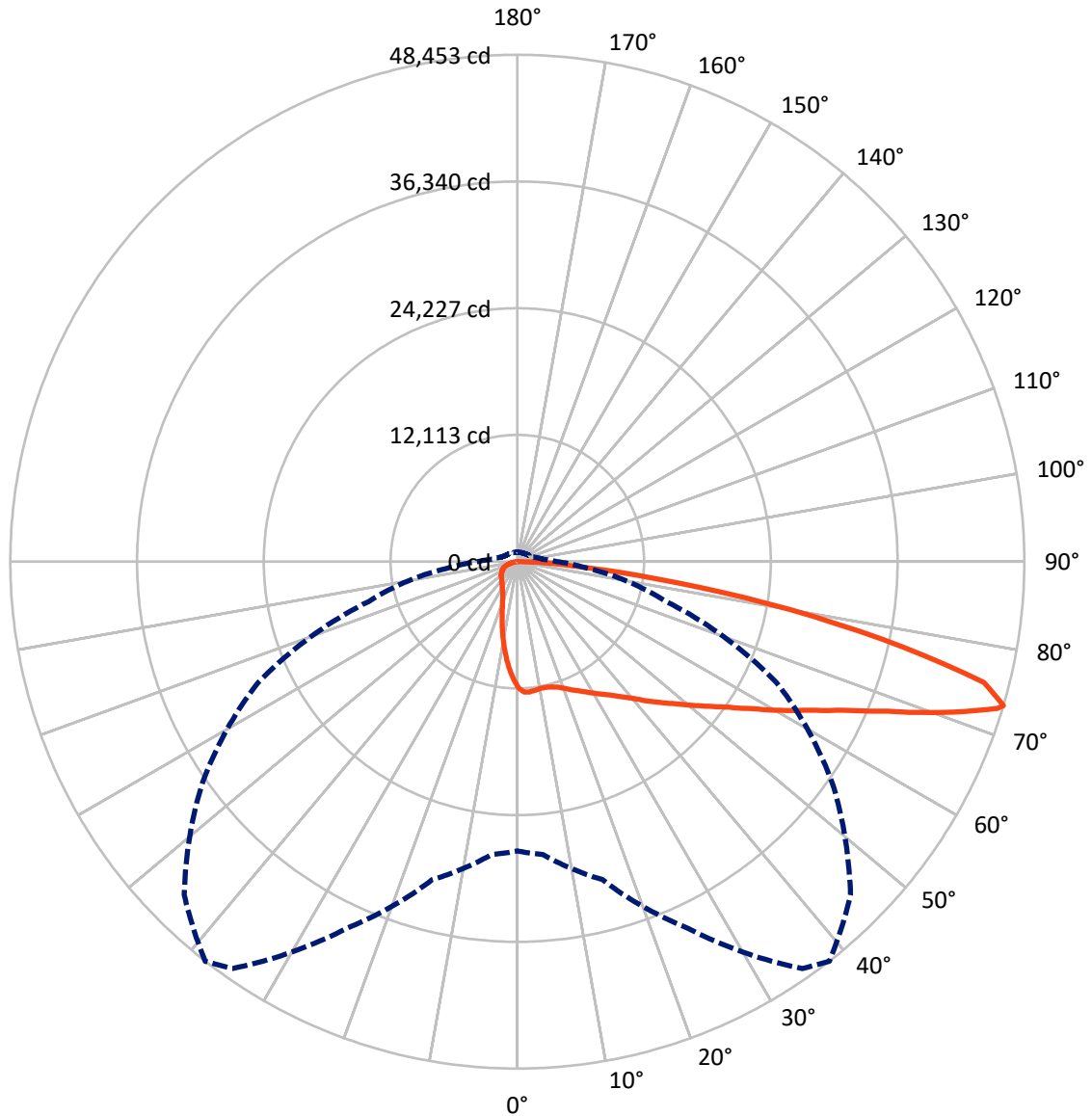
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9228.1	0.0	9228.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	59417.9	0.0	59417.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	68646.0	0.0	68646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.7	1.5
10°-20°	2699.5	3.9
20°-30°	4203.6	6.1
30°-40°	6165.7	9.0
40°-50°	9146.1	13.3
50°-60°	12958.2	18.9
60°-70°	16437.9	23.9
70°-80°	13683.3	19.9
80°-90°	2299.0	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	68646.0	100.0
0°-180°	68646.0	100.0

Coefficient of Utilization



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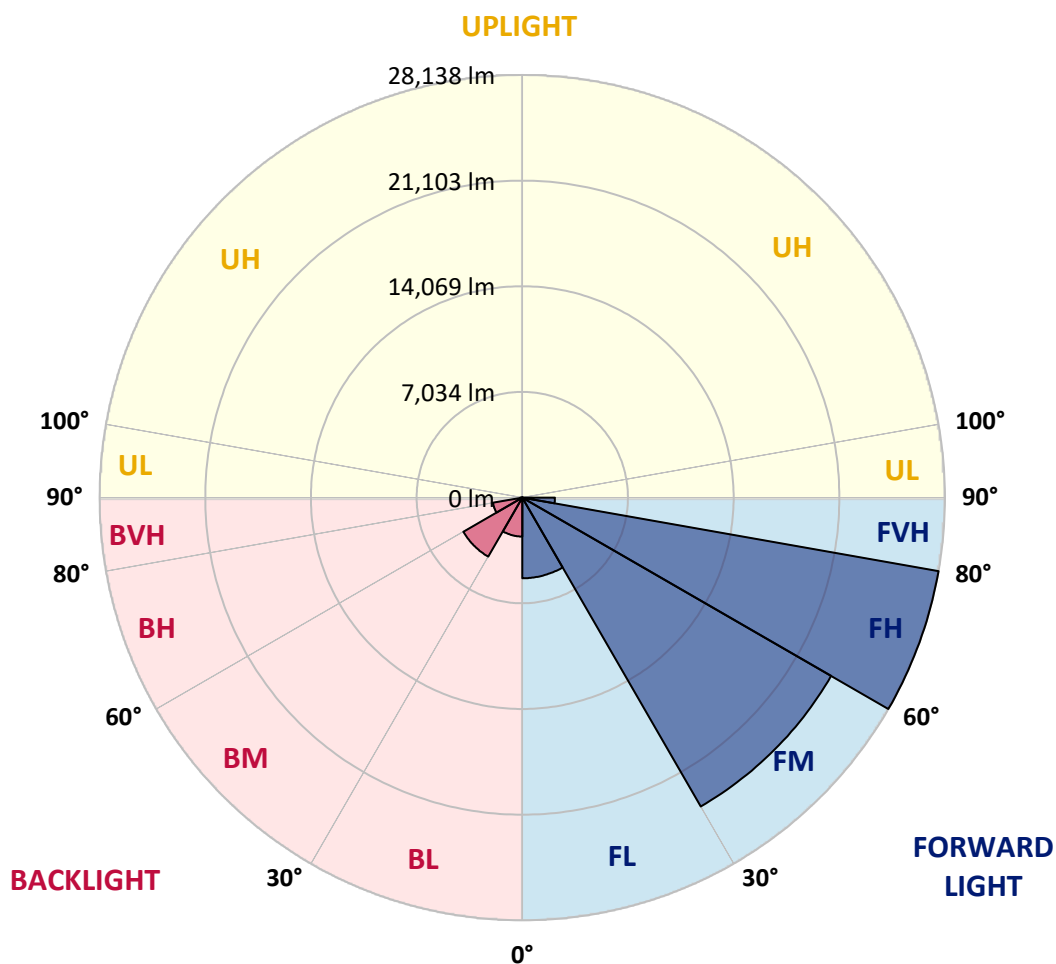
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5366.3	7.8			
FM	(30°-60°)	23739.6	34.6			
FH	(60°-80°)	28137.7	41.0			G5
FVH	(80°-90°)	2174.3	3.2			G5
BL	(0°-30°)	2589.5	3.8	B4/5000		
BM	(30°-60°)	4530.4	6.6	B3/5000		
BH	(60°-80°)	1983.5	2.9	B3/2500		G3/2500
BVH	(80°-90°)	124.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9
2.5°	12544.5	12606.5	12575.5	12532.9	12505.7	12478.6	12439.8	12327.4	12238.3	12141.3	11990.2
5°	12637.5	12676.3	12649.2	12594.9	12532.9	12505.7	12432.1	12284.8	12141.3	11978.5	11753.7
7.5°	12583.3	12598.8	12567.8	12501.9	12447.6	12397.2	12311.9	12149.1	11974.7	11777.0	11482.3
10°	12389.4	12447.6	12447.6	12393.3	12339.1	12311.9	12226.6	12071.6	11912.6	11687.8	11338.9
12.5°	12230.5	12292.5	12342.9	12327.4	12323.5	12323.5	12257.6	12141.3	11955.3	11742.1	11327.3
15°	12122.0	12195.6	12304.2	12366.2	12405.0	12416.6	12389.4	12288.7	12098.7	11850.6	11373.8
17.5°	12098.7	12187.9	12385.6	12521.2	12622.0	12618.2	12610.4	12470.9	12261.5	12005.7	11431.9
20°	12203.4	12319.7	12594.9	12808.1	12955.4	12928.3	12885.6	12703.4	12459.2	12172.4	11486.2
22.5°	12517.4	12637.5	12939.9	13172.5	13315.9	13315.9	13188.0	12947.7	12687.9	12366.2	11559.9
25°	12967.1	13098.9	13420.6	13657.1	13723.0	13672.6	13544.7	13253.9	12955.4	12645.3	11714.9
27.5°	13517.5	13676.5	13975.0	14172.7	14153.3	14114.5	13982.7	13610.6	13312.1	13029.1	11978.5
30°	14203.7	14320.0	14630.1	14676.6	14606.8	14599.1	14413.0	14040.9	13761.7	13544.7	12354.6
32.5°	14851.1	14955.7	15203.8	15223.2	15099.2	15114.7	14940.2	14599.1	14440.1	14362.6	12986.4
35°	15537.2	15591.5	15804.7	15781.4	15700.0	15688.4	15618.6	15293.0	15343.4	15482.9	13881.9
37.5°	16110.9	16219.5	16339.6	16359.0	16355.2	16393.9	16440.4	16285.4	16576.1	17014.2	15056.5
40°	16638.1	16731.2	16909.5	16971.5	17122.7	17200.2	17359.2	17363.1	18033.7	18754.7	16502.5
42.5°	16994.8	17153.7	17487.1	17599.5	17967.8	18200.4	18436.9	18688.8	19661.8	20588.3	18208.1
45°	17304.9	17514.2	18068.6	18417.5	18917.6	19200.5	19700.6	20227.8	21627.3	22840.6	19941.0
47.5°	17774.0	17960.0	18595.8	19212.2	19968.1	20293.7	21041.9	21828.8	23658.6	24988.2	21600.1
50°	18425.2	18537.6	19185.0	20189.1	21154.3	21573.0	22561.5	23697.3	25829.4	27108.7	23057.7
52.5°	19258.7	19305.2	19820.8	21158.2	22429.7	22949.2	24259.4	25585.2	27728.9	28950.1	24212.9
55°	20243.3	20165.8	20569.0	22185.5	23887.3	24565.7	25972.9	27496.4	29864.9	30438.6	25054.1
57.5°	21216.3	21096.2	21417.9	23433.7	25686.0	26504.0	28143.7	29465.6	31772.2	31830.3	25643.4
60°	22247.5	22158.3	22542.1	24899.1	27891.8	28860.9	30376.6	31508.6	33617.4	32799.5	25736.4
62.5°	23305.8	23162.4	23709.0	26546.6	30376.6	31256.6	32725.8	33679.4	35427.8	33160.0	24840.9
65°	24333.1	24267.2	25112.3	28504.3	33206.5	34206.7	35633.2	36280.6	36877.6	32617.3	22619.7
67.5°	25426.3	25558.1	26907.1	31117.0	36897.0	38153.0	39692.0	39083.4	37292.4	30047.1	19049.4
70°	27093.2	27178.5	29264.1	34540.0	41653.5	43169.2	43913.5	40079.6	35292.1	25166.5	14320.0
72.5°	27810.4	28186.4	31369.0	38133.6	47057.4	47983.9	45332.3	37858.4	29399.7	17095.6	7524.4
73°	27651.4	28101.1	31465.9	38680.2	47480.0	48453.0	45030.0	36714.8	27329.7	14723.1	6450.6
75°	25670.5	26224.8	30206.1	38222.8	46658.1	46076.6	40168.8	31291.5	18467.9	6694.8	2938.4
77.5°	20255.0	20413.9	23933.8	30865.1	36741.9	35664.2	30062.6	19557.2	7543.8	2488.7	1666.9
80°	10160.4	10745.8	13490.4	17680.9	24569.6	24216.8	18975.7	9249.4	3143.9	1461.5	1104.8
82.5°	4888.3	5303.1	6570.7	8621.4	13575.7	13253.9	9396.8	5055.0	1996.4	852.8	651.3
85°	3147.8	3457.9	4182.8	4113.0	5582.2	5330.3	4221.6	3826.2	1182.3	445.8	453.6
87.5°	2077.8	2275.5	2729.1	2182.5	2031.3	1837.5	1864.6	2155.4	232.6	170.6	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9	12059.9
2.5°	11928.1	11877.7	11711.0	11548.2	11393.2	11245.9	11149.0	11021.0	10935.7	10959.0	10993.9
5°	11629.6	11517.2	11222.6	10935.7	10664.4	10342.6	10082.9	9873.6	9714.6	9656.5	9644.8
7.5°	11315.6	11125.7	10703.1	10210.8	9749.5	9350.2	8888.9	8660.2	8392.7	8299.7	8268.7
10°	11125.7	10869.8	10276.7	9590.6	8896.7	8233.8	7733.7	7326.7	6958.4	6888.6	6853.7
12.5°	11071.4	10734.2	9935.6	9051.7	8129.1	7315.0	6574.6	6039.7	5683.0	5601.6	5481.4
15°	11040.4	10621.7	9617.7	8509.0	7338.3	6345.9	5566.7	4942.6	4617.0	4399.9	4403.8
17.5°	11013.3	10493.8	9261.1	7915.9	6656.0	5512.5	4651.9	4089.8	3791.3	3675.0	3663.3
20°	10974.5	10342.6	8850.2	7291.8	5876.8	4752.6	3973.5	3554.8	3353.2	3256.3	3252.4
22.5°	10959.0	10195.3	8447.0	6656.0	5186.8	4167.3	3523.8	3229.2	3101.2	3035.3	3035.3
25°	10997.8	10090.7	8024.5	6051.3	4574.3	3667.2	3213.7	3012.1	2938.4	2903.5	2891.9
27.5°	11117.9	10044.1	7605.8	5446.5	4012.2	3326.1	3004.3	2864.8	2810.5	2783.4	2787.2
30°	11346.7	10040.3	7194.9	4849.6	3593.6	3066.3	2837.6	2740.7	2698.1	2682.6	2678.7
32.5°	11714.9	10125.5	6791.7	4357.2	3240.8	2849.3	2682.6	2612.8	2593.4	2581.8	2577.9
35°	12339.1	10365.9	6392.4	3907.6	2969.4	2655.4	2535.3	2500.4	2473.2	2484.9	2488.7
37.5°	13180.3	10780.7	6012.5	3554.8	2764.0	2512.0	2411.2	2380.2	2364.7	2376.3	2388.0
40°	14308.3	11377.7	5694.6	3271.8	2616.7	2391.8	2302.7	2275.5	2260.0	2279.4	2283.3
42.5°	15552.7	12067.7	5431.0	3050.8	2496.5	2291.0	2205.8	2174.7	2163.1	2174.7	2178.6
45°	16832.0	12870.1	5295.4	2891.9	2395.7	2217.4	2128.2	2093.3	2066.2	2058.4	2070.1
47.5°	18091.8	13567.9	5291.5	2795.0	2314.3	2151.5	2054.6	2015.8	1980.9	1961.5	1957.7
50°	19119.1	14122.3	5384.5	2752.3	2244.5	2077.8	1980.9	1942.2	1895.6	1856.9	1864.6
52.5°	19894.4	14482.8	5427.2	2733.0	2205.8	2000.3	1903.4	1868.5	1814.2	1763.8	1763.8
55°	20394.5	14568.1	5322.5	2713.6	2174.7	1918.9	1814.2	1783.2	1728.9	1678.5	1678.5
57.5°	20565.1	14304.5	4946.5	2667.1	2143.7	1849.1	1725.1	1697.9	1655.3	1604.9	1597.1
60°	20169.7	13412.9	4287.5	2527.5	2081.7	1775.5	1628.1	1616.5	1601.0	1558.4	1554.5
62.5°	18646.2	11521.1	3570.3	2345.3	1977.0	1697.9	1539.0	1558.4	1570.0	1546.7	1542.9
65°	16110.9	9354.1	3050.8	2093.3	1837.5	1589.4	1442.1	1492.5	1523.5	1523.5	1515.7
67.5°	13067.8	7183.2	2570.2	1876.2	1663.0	1442.1	1333.5	1372.3	1395.6	1387.8	1407.2
70°	9288.2	4865.1	2093.3	1628.1	1442.1	1275.4	1194.0	1194.0	1178.5	1170.7	1170.7
72.5°	4504.5	2779.5	1697.9	1360.7	1228.9	1089.3	1023.4	996.3	965.3	961.4	942.0
73°	3764.1	2492.6	1620.4	1310.3	1178.5	1062.2	988.5	945.9	926.5	911.0	907.1
75°	2291.0	1891.8	1352.9	1104.8	1004.0	914.9	849.0	810.2	790.8	779.2	775.3
77.5°	1508.0	1411.1	1050.5	845.1	767.6	713.3	686.1	647.4	635.8	620.2	620.2
80°	1124.2	1077.7	752.1	597.0	550.5	504.0	496.2	488.4	457.4	438.0	430.3
82.5°	724.9	767.6	511.7	399.3	348.9	310.1	314.0	325.6	294.6	267.5	259.7
85°	515.6	554.3	310.1	182.2	147.3	127.9	143.4	127.9	131.8	104.7	85.3
87.5°	85.3	147.3	54.3	23.3	11.6	7.8	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)